

DRAFT 8.4.2014



Hawaii Department of Health Water Quality Plan Update

3rd Annual Joint Government Water Conference

> Kauai ~ August 4, 2015 Oahu ~ August 6, 2015 Kona ~ August 11, 2015 Hilo ~ August 13, 2015 Maui ~ August 18, 2015

Presentation Agenda

- Water Quality Plan Outline
- Proposed Schedule to Update the Water Quality Plan



- Section I: Background
 - Hawaii Water Plan
 - Statewide Framework for Updating the Hawaii Water Plan
- Section II: Water Quality Programs and Initiatives
 - Ground Water Quality
 - Surface Water Quality
 - Drinking Water and Clean Water State Revolving Funds
 - Challenges
- Section III: Supporting DOH Water Quality Work
- Section IV-VII: Relevant Statutes and Rules; Information Sources; Organization Charts; and Water Quality Maps



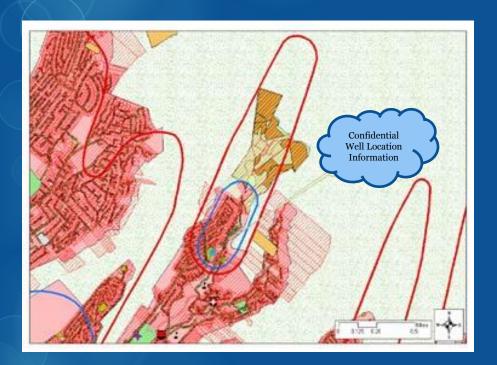
- Section I: Background
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 - Statewide Framework for Updating the Hawaii Water Plan



- Section II: Water Quality Programs and Initiatives
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 - Challenges



Ground Water Quality



http://health.hawaii.gov/sdwb/swap/

Source Water Assessment and Protection (SWAP) Program

Goals:

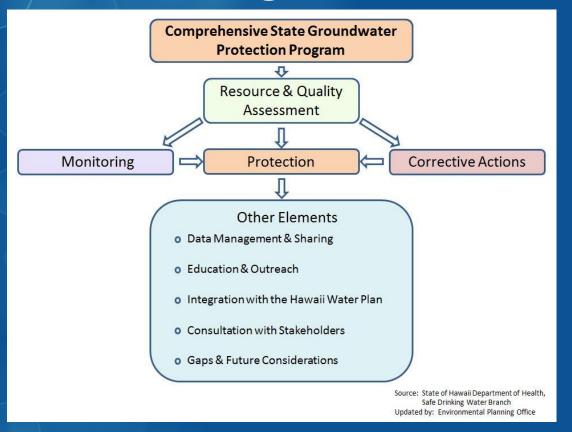
- Assess the susceptibility of public drinking water sources to contamination;
- Protect public drinking water sources from contamination; and
- Use source water assessment information to meet drinking water requirements.

Proposed Actions:

- Assess all existing and proposed drinking water sources;
- Create state and local source water protection workgroups; and
- Redevelop and implement the Wellhead Protection Financial Assistance Program.



Comprehensive State Groundwater Protection Program



http://health.hawaii.gov/sdwb/groundwaterprotection-program/

Goals:

- Establish a mechanism for better understanding of relationships between ground water quantity and quality concerns;
- Demonstrate the State's proactive approach to ground water protection, justifying increased funding for program development & additional flexibility from the EPA and other federal agencies; and
- Improve public understanding of ground water protection concerns within the State, and provide a broader context for public participation.

Proposed Actions:

- Establish specific ground water protection goals to guide the relevant federal, state, and local programs operating within the State; and
- Establish priorities to guide relevant federal, state, and local programs and activities.

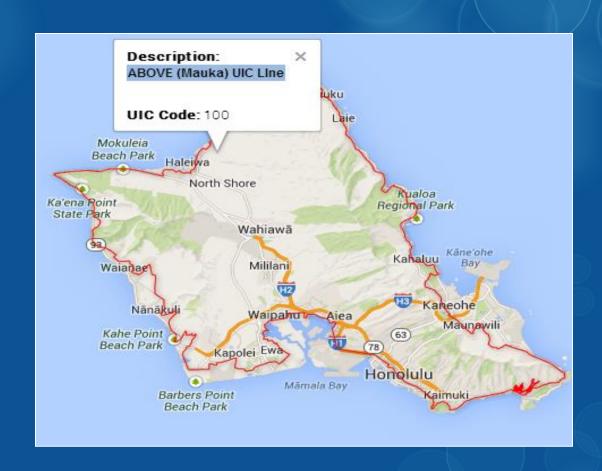
Underground Injection Control

Goal:

- Reduce the number of unpermitted UIC well facilities
- Assure proper abandonment of UIC wells

Proposed Action:

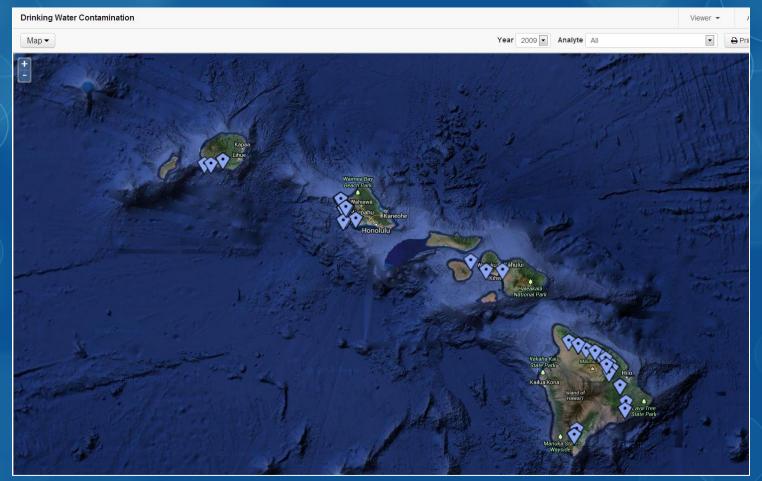
- Improve the UIC database system
- Continue to utilize and improve the Environmental Health Administration online e-Permitting System



http://health.hawaii.gov/sdwb/underground-injection-control-program/



Groundwater Contamination Viewer



https://eha-cloud.doh.hawaii.gov



Surface Water Quality

Water Quality Standards

Goals: The goal of the WQS Program is to develop scientifically-based WQS that:

- (a) meet federal requirements;
- (b) specify the uses to be protected in State waters; and
- (c) provide appropriate criteria and methods for evaluating the attainment of these protected uses.

Current Action:

• The Clean Water Act requires the State to review WQS every 3 years. The revisions to Hawaii Administrative Rules, Chapter 11-54 became effective on November 15, 2014. Implementation has already begun.





Monitoring Program



http://emdweb.doh.hawaii.gov/cwb/wqd/viewer/

Goals:

- Monitor surface waters of the State;
- Develop and implement monitoring tools and methodologies;
- Protect Hawaii's aquatic and marine resources; and
- Protect Hawaii's water recreational community.

Proposed Actions:

- Partnership with USGS to conduct surveys of endocrine active compounds in smallmouth bass to determine existence of chemical contaminants (herbicides, pharmaceutical, and biogenic hormones).
- Partnership with USGS to deploy five Semipermeable Membrane Devices in West Maui to determine existence of pollutant sources and levels in different locations.

Goals:

- Prevent environmental degradation due to nonpoint source pollution;
- Increase the amount of resources devoted to the control of polluted runoff and focus on collaborative efforts to utilize limited resources; and
- Provide outreach and education to the community in partnership with other agencies.

Actions:

- Increase the amount of funding devoted to the control of polluted runoff through best management practices;
- Obtain federal approval of Coastal Zone Nonpoint Pollution Control Program.
- Issue Request for Proposals for the Watershed Implementation Projects on an annual basis

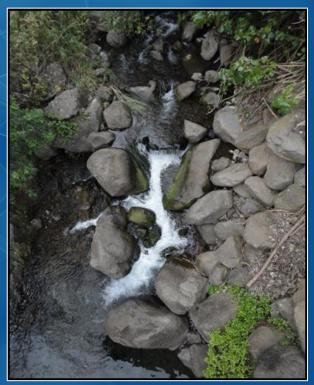
Polluted Runoff Control



http://health.hawaii.gov/cwb/sitemap/clean-water-branch-homepage/polluted-runoff-control-program/



Total Maximum Daily Loads



http://health.hawaii.gov/cwb/sitemap/clean-water-branch-homepage/integrated-report-and-totalmaximum-daily-loads/

Goals:

- Quantitatively assess watershed-scale water quality problems, contributing sources, and pollutant load reductions.
- Provide an analytical basis for implementing pollution controls.
- Provide assistance with identifying restoration projects to improve water quality and protect public and environmental health.

Proposed Actions:

- Incorporate CWB program elements (beach and surface water monitoring, polluted runoff control, NPDES permits, etc.) into the TMDL process.
- Collaborate with the counties and other state agencies to prioritize watersheds for restoration efforts and support stakeholder stewardship of watershed resources.



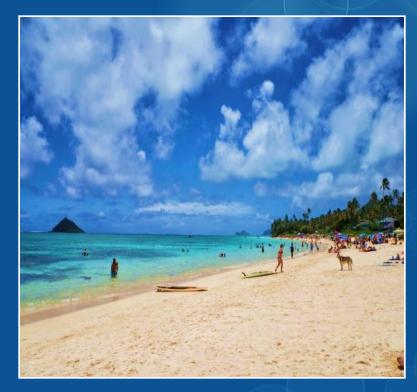
National Pollutant Discharge Elimination System (NPDES) Program

Goals:

• Regulate point source discharges through permitting and enforcement.

Proposed Actions:

- CWB is planning to implement a statewide MS4* and stormwater system initiative to encourage counties without MS4 permits to implement stormwater controls.
 - Would include providing financial and technical assistance to implement best management practices (BMPs) and monitoring.



http://health.hawaii.gov/cwb/



* MS4 = Municipal Separate Storm Sewer System

Revising Recycled Water Guidelines

Goals:

• Increase water reuse statewide.

Proposed Actions:

 Complete revisions to the Guidelines by December 31, 2015.

http://health.hawaii.gov/wastewater/files/2013/06/reuse-final.pdf

GUIDELINES

FOR THE TREATMENT AND

USE OF RECYCLED WATER



Prepared by

Hawaii State Department of Health

Wastewater Branch

(Replaces November 22, 1993 Version)



Upgrading and Eliminating Cesspools

Goal:

• Eliminate cesspool pollution.

Current Action:

Update HAR, Chapter 11-62 to:

- Prohibit the construction of new cesspools.
- Implement the temporary income tax credit for the cost of upgrading or converting a qualified cesspool (HB1140 HD1 SD2 CD1 was signed into law on June 12, 2015, as Act 120 affecting Hawaii Revised Statutes, Chapter 235).







http://health.hawaii.gov/wastewater/

Clean Water State Revolving Fund

New UV Banks at
West Maui
Recycled Water –
Phase 1 – UV
Expansion
Lahaina
Treatment Plant,
Maui
\$10,946,000
CWSRF Project



SFY	# Final Loans Agreements Executed	\$ Committed
2014	6	\$19,285,186.69
2015	7 (estimated)	\$50,968,700 (estimated)
2016	10 (estimated)	\$54,063,104 (estimated)

- \$675 million in lowinterest loans provided since 1988
- Loans provided to the Counties for construction of publicly-owned wastewater treatment facility infrastructure.
- The current interest rate is 1%.

http://health.hawaii.gov/ wastewater/home/cwsrf/



Drinking Water State Revolving Fund



Waikamoi Flume Repair/Replacement Upper Kula Water System, Maui \$8,362,760 DWSRF project

http://health.hawaii.gov/sdwb/drinking-water-state-revolving-fund/

- \$164 million in low-interest loans provided since 1997
 - Loans are provided to Hawaii's 4 Counties for drinking water infrastructure projects
- Total Loan Rates of 1-2% continue to be offered on a tiered loan rate structure.

SFY	# Final Loans Agreements Executed	\$ Committed
2012	5	5,856,911.00
2013	10	27,692,905.65
2014	10	32,924,850.00
2015	8	48,638,387.31
2016	11 (estimated)	69,838,582.00 (estimated)



Challenges

Intra-agency collaboration

Inter-agency collaboration

Funding Issues

Climate Change



- Section III: Supporting DOH Water Quality Work
- Section IV-VII: Relevant Statutes and Rules; Information Sources; Organization Charts; and Water Quality Maps



Other DOH Water Quality Work

Environmental Resources Office

-Manages water grants

-Helps to manage DWSRF and CWSRF

State Labs Division

-Analyzes SDWB and CWB water samples

Solid and Hazardous Waste Branch

-UST program

-Solid & Hazardous Waste Management

Environmental Planning Office

-Helped to develop Water Quality Plan (including WQS maps)

Water Quality in Hawaii

HEER Office

- -Prevents, plans for, and responds to hazardous substance releases into water
- -Recently conducted statewide pesticide survey with CWB assistance

Office of Environmental Quality Control

-Reviews land use documents, which often have the potential to affect water quality

Environmental Information Manager

- -Helps to manage EHA information technology
- -Develops systems for organizing and sharing water quality data



Water Quality Maps



DOH's Clean Water Branch and Environmental Planning Office eGIS program also updated the State water quality maps.

These are included in Section VII of the Water Quality Plan.

http://health.hawaii.gov/cwb/site-map/clean-water-branch-home-page/water-quality-standards/



Schedule for DOH Water Quality Plan Update

Internal DOH Planning Meetings Government Agency Planning Meetings

Public Meetings

Final
Collaboration
with Government
Agencies and
Public

- October 2013 -March 2014
- March September
 2014 including
 a session at the
 2nd Annual Joint
 Government
 Water Conference
 (August 2014)
- July 2014 –
 Preliminary draft for agency review
- July 21, 2014 -Agency comments due

- August 4, 2014Draft WaterQuality Plan
- September 16,
 2014 Public
 Information
 Meeting
- October 17, 2014 - Public Comments due
- June 2015 March 2016: Revise/update per public and agency comments. Presentation at 3rd Annual Joint Government Water Conference (August 2015)
- **Spring 2016**: Final Water Quality Plan



- Review the Draft Water Quality Plan at: <u>http://health.hawaii.gov/water/</u>
- Please email your comments on the Draft Plan to: <u>WQPComments@doh.hawaii.gov</u>





For more information on the Draft Plan or DOH's Water Quality work, please contact:

Safe Drinking Water Branch (808) 586-4258 sdwb@doh.hawaii.gov

Clean Water Branch (808) 586-4309 <u>cleanwaterbranch@doh.hawaii.gov</u>

> Wastewater Branch (808) 586-4294 wwb@doh.hawaii.gov

